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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/747,955	10/747,955 12/31/2003		Zuoren Nie	038873-0102	6211
22428	7590	03/31/2006		EXAMINER	
FOLEY AN	ID LARI	ONER LLP	MORILLO, JANELL COMBS		
3000 K STR	EET NW		ART UNIT	PAPER NUMBER	
WASHINGT			1742	-	

DATE MAILED: 03/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Assign Commons	10/747,955	NIE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Janelle Combs-Morillo	1742					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on 13 Ja	nuary 2006.						
2a) This action is FINAL . 2b) ⊠ This	action is non-final.						
3)☐ Since this application is in condition for allowan	nce except for formal matters, pro	secution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.							
,4a) Of the above claim(s) 6-13 is/are withdrawn	from consideration.						
5) Claim(s) is/are allowed.							
. 6)⊠ Claim(s) <u>1-5</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 011306.	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:						

Application/Control Number: 10/747,955 Page 2

Art Unit: 1742

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 13, 2006 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higashi et al (US 4,713,216).

Higashi teaches an Al-Zn-Mg alloy with added rare earth such as Er (column 2 line 32), which is effective to improve the resistance to stress and corrosion (column 2 lines 38-40). Higashi teaches 4-12% Zn, 0.3-5.0% Mg, and 0.5-10.0% rare earth (see abstract), which substantially overlaps the presently claimed alloying ranges.

It would have been obvious to select Er from the markush group of rare earth elements taught by Higashi because Higashi teaches at column 2 lines 40-42 that said rare earth elements are recognized equivalents (see MPEP 2144.06).

Application/Control Number: 10/747,955 Page 3

Art Unit: 1742

Overlapping ranges have been held to be a prima facie case of obviousness, see MPEP § 2144.05. It would have been obvious to one of ordinary skill in the art to select any portion of the range, including the claimed range, from the broader range disclosed in the prior art, because the prior art finds that said composition in the entire disclosed range has a suitable utility. Because Higashi teaches a substantially overlapping alloy composition, it is held that Higashi has created a prima facie case of obviousness of the presently claimed invention.

Response to Amendment/Arguments

- 4. In the response filed on January 13, 2006 applicant submitted various arguments traversing the rejections of record, as well as a 1.132 declaration.
- 5. The declaration under 37 CFR 1.132 filed 1/13/2006 is insufficient to overcome the rejection of claims 1-5 based upon Higashi as set forth in the last Office action because: applicant has not clearly shown a nexus between the merits of the claimed invention and the evidence of secondary considerations (for MPEP 716.01b, MPEP 716.01-02 in general).

 Applicant should establish a nexus between the rebuttal evidence and the claimed invention, i.e., objective evidence of nonobviousness must be attributable to the claimed invention, see MPEP 2144.08. The weight attached to evidence of secondary considerations by the examiner will depend upon its relevance to the issue of obviousness and the amount and nature of the evidence, see MPEP 716.01(b). Note the great reliance placed on this type of evidence by the Supreme Court in upholding the patent in United States v. Adams, 383 U.S. 39,148 USPQ 479 (1966). To be given substantial weight in the determination of obviousness or nonobviousness, evidence of secondary considerations must be relevant to the subject matter as claimed, and therefore the

Application/Control Number: 10/747,955

Art Unit: 1742

examiner must determine whether there is a nexus between the merits of the claimed invention and the evidence of secondary considerations. Ashland Oil, Inc. v. Delta Resins & Refractories, Inc., 776 F.2d 281, 305 n.42, 227 USPQ 657, 673-674 n. 42 (Fed. Cir. 1985), cert. denied, 475 U.S. 1017 (1986). Applicant has not provided specific evidence, clearly detailing unexpected results with respect to the prior art or record/ or criticality of the presently claimed alloying ranges. Evidence of unexpected properties may be in the form of a direct or indirect comparison of the claimed invention with the closest prior art which is commensurate in scope with the claims. See In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980) and MPEP §716.02(d) - §716.02(e).

Page 4

The argument that the applicant has shown that the instant Al-Zn-Mg alloy with added Er exhibits an unexpected increase of strength of 20% (Table 3 of instant specification) has not been found persuasive, because a) Table 3 of the instant specification refers to Al-Mg alloy (not Al-Zn-Mg) with added Er, and b) as stated above, the unexpected results are not fully commensurate in scope with the claimed invention (see MPEP 716.02 d).

- 6. Applicant's argument that the present invention is allowable over the prior art of record because the prior art does not teach Er increases the strength of the instant Al-Zn-Mg alloy has not been found persuasive. Higashi does teach that the addition of RE metal improves the resistance to stress (column 2 line 40).
- 7. Applicant's argument that the present invention is allowable over the prior art of record because there is no motivation to selected Er from the markush group of rare earth elements taught by Higashi has not been found persuasive. The motivation to select Er from the markush

Application/Control Number: 10/747,955

Art Unit: 1742

group of rare earth elements is that Higashi teaches at column 2 lines 40-42 that said rare earth elements are recognized equivalents (see MPEP 2144.06).

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janelle Combs-Morillo whose telephone number is (571) 272-1240. The examiner can normally be reached on 8:30 am- 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JCM 7 21, 2006

GEORGE WYSZOMIERSKI PRIMARY EXAMINER